

Abstract of the Disclosure

A ruled line extracting apparatus obtains
circumscribed rectangles of pixel concatenation
5 regions included in an input pattern, and calculates
the most frequent value of their heights.
Additionally, the apparatus integrates segments by
ignoring a wild card segment, and calculates the most
frequent value of height/width of extracted straight
10 lines and segments structuring the straight line.
Next, it performs a process for integrating/deleting
straight lines using each threshold value based on the
highest frequency value. Then, it checks/deletes a
straight line according to a distribution of black
15 pixels around the straight line, and recognizes the
remaining straight lines as ruled line candidates.